## Amendments to the Claims

- (Previously presented) A network monitoring system for monitoring the packet delivery performance of a packet-based network, the network monitoring system comprising:
  - a first gateway device;
- a second gateway device in communication with the first gateway device, wherein the first gateway device and the second gateway device communicate by transmitting a sequence of digital packets; and
  - a monitoring device associated with the first and second gateway devices, wherein the second gateway device further comprises:
  - a control protocol process generating packet delivery performance statistics that are indicative of performance of packet delivery between the second gateway device and the first gateway device;
  - a network monitoring process for collecting the generated packet delivery performance statistics
  - a database for storing the collected packet delivery performance statistics, the database being organized according to gateway device pairs; and
  - a reporting process for sending the stored packet delivery performance statistics to the monitoring device.
- (Previously presented) The system of claim 1 wherein a view of network performance is measured by compiling packet performance statistics between the first and second gateway devices.
- (Previously presented) The system of claim 1 wherein the control protocol process generating packet delivery performance statistics utilizes RTCP.
- (Previously presented) The system of claim 1 wherein the sequence of digital packets includes real-time voice and audio information.
- 5. (Previously presented) The system of claim 1 further comprising a plurality of gateways generating network performance data; wherein the gateways are organized according

to a hierarchical network organization structure to facilitate the organization of network performance data.

- (Previously presented) The system of claim 5 wherein the network hierarchy comprises organizing individual gateway devices into groups for the purposes of collecting network packet delivery performance information according to the network hierarchy.
- (Previously presented) The system of claim 1 wherein the packet delivery performance statistics comprise iitter and packet loss statistics.
- (Previously presented) The system of claim 1 wherein the packet delivery performance statistics comprises round-trip delay statistics.
- (Previously presented) The system of claim 1 wherein the network monitoring system comprises alarm processing for detecting when packet delivery performance statistics exceed alarm thresholds.
- (Previously presented) The system of claim 1 wherein the network monitoring system comprises long term monitoring of packet delivery performance statistics.

## 11-15 (canceled).

16. (Previously presented) A method for monitoring the performance of a network system comprising:

generating packet delivery statistics for packets from a first gateway device to a second gateway device;

compiling the generated packet delivery statistics at the second gateway device;

sending the compiled packet delivery statistics to a monitor device associated with the first and second gateway devices; and

monitoring the packet delivery statistics at the monitor device to determine the packet delivery performance between the first gateway device and the second gateway device.

- (Previously presented) The method of claim 16 wherein generating packet delivery statistics generating packet delivery statistics according to the RTCP protocol.
- 18. (Previously presented) The method of claim 16 wherein compiling the generated packet delivery statistics comprises compiling the generated packet delivery statistics in a database, the database organizing the generated packet delivery performance according to pairs of gateways.
- (Previously presented) The method of claim 16 wherein monitoring the packet delivery statistics comprises monitoring the packet delivery statistics on various time scales.
- (Currently amended) The method of claim 19 wherein monitoring monitoring the
  packet delivery statistics on various time scales comprises monitoring the packet delivery
  statistics on a time scale appropriate to real-time monitoring of call sessions.
- 21. (Currently amended) The method of claim 19 wherein monitoring monitoring the packet delivery statistics on various time scales comprises monitoring the packet delivery statistics on a time scale appropriate to near real-time monitoring to provide current network conditions.
- (Currently amended) The method of claim 19 wherein monitoring monitoring the
  packet delivery statistics on various time scales comprises monitoring the packet delivery
  statistics on a time scale appropriate to long-term trend analysis.